

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. Marks: 12

**Note:** Four possible answers A, B, C. and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- **e-mail is abbreviation of:**

- (a) Emergency mail      (b) Electronic mail ✓  
 (c) Urgent mail          (d) None of these

2- **In which process, sun gains energy:**

- (a) Nuclear fission      (b) Nuclear fusion ✓  
 (c) Burning of gases    (d) Chemical reaction

3- **The equation of Not Operation is:**

- (a)  $X = A.B$               (b)  $X = A + B$   
 (c)  $X = A - B$             (d)  $X = \bar{A}$  ✓

4- **Frequency is equal to:**

- (a)  $f = \frac{1}{T}$  ✓              (b)  $f = \frac{l}{g}$

- (c)  $f = 2\pi \sqrt{\frac{l}{g}}$               (d)  $f = kx$

5- **The refractive index of ice is:**

- (a) 1.00                      (b) 1.33  
 (c) 1.31 ✓                  (d) 2.42

6- **The unit of electric intensity is:**

- (a) Watt                      (b)  $Ns^{-1}$   
 (c)  $NC^{-1}$  ✓              (d) Nm

7- **Transformer is used for:**

- (a) Increase voltage ✓    (b) Increase resistance  
 (c) Both a & b              (d) None of these



**8- One mega byte is equal to:**

- (a) 1024 kB ✓ (b) 1035 kB  
(c) 1044 kB (d) 1054 kB

**9- The spring's constant is:**

- (a)  $k = \frac{-F}{x}$  ✓ (b)  $F = ma$   
(c)  $w = mg$  (d)  $k = -\frac{x}{m}$

**10- Mathematical form of current is:**

- (a)  $I = \frac{t}{Q}$  (b)  $I = \frac{Q}{t}$  ✓  
(c)  $I = QR$  (d)  $I = VR$

**11- The electroscope is an instrument which is used for:**

- (a) Detecting charge ✓ (b) Detecting current  
(c) Detecting radiations (d) None of these

**12- The speed of sound in air at 0°C is:**

- (a) 317 ms<sup>-1</sup> (b) 346 ms<sup>-1</sup>  
(c) 386 ms<sup>-1</sup> (d) 331 ms<sup>-1</sup> ✓